PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q95279

Naoko KIDA, et al.

Appln. No.: 10/581,911

Group Art Unit: 1651

Confirmation No.: 8940

Examiner: Thane E UNDERDAHL

Filed: June 7, 2006

For:

METHOD FOR THREE-DIMENSIONAL CARTILAGE TISSUE ENGINEERING

USING BONE MARROW CELLS IN SIMULATED MICROGRAVITY

ENVIRONMENT

REQUEST FOR CORRECTED OFFICIAL FILING RECEIPT

ATTN: Office of Initial Patent Examination

Filing Receipt Correction

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

We enclose a copy of the Corrected Official Filing Receipt for the above-identified application and request the following correction:

Please change the Title as follows:

Method for three-dimensional cartilage tissue engineering using bone marrow cells in tissue engineering bone marrow cells in simulated microgravity environment

Verification for the requested correction is indicated on the Declaration filed June 7, 2006.

Respectfully submitted,

Registration No. 32,607

SUGHRUE MION, PLLC

Telephone: (202) 293-7060

Facsimile: (202) 293-7860

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: June 27, 2007



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS RO. Box 1450 Alexandra, Viginia 22313-1450 www.unpto.gov

FILING OR 371(c) APPL NO. ART UNIT FIL FEE REC'D ATTY DOCKET NO TOT CLMS IND CLMS DATE 10/581.911 06/07/2006 1651 900 Q95279 9 1

CONFIRMATION NO. 8940

CORRECTED FILING RECEIPT

OC000000023831667

23373 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037

Date Mailed: 05/11/2007

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt, If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Naoko Kida, Ibaraki, JAPAN; Toshimasa Uemura, Ibaraki, JAPAN; Junzo Tanaka, Ibaraki, JAPAN; Yoshimi Oyabu, Ibaraki, JAPAN;

Power of Attorney: The patent practitioners associated with Customer Number 23373.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP04/18339 12/02/2004

Foreign Applications

JAPAN 2003-413758 12/11/2003 JAPAN 2004-096686 03/29/2004

If Required, Foreign Filing License Granted: 02/10/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US10/581.911**

Projected Publication Date: 05/24/2007

Non-Publication Request: No

Early Publication Request: No

Title

Method for three-dimensional cartilage tissue engineering using bone marrow cells-in tissue - engineering bone marrow cells in simulated microgravity environment

Preliminary Class

435

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier

license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

Attorney's Docket No.:	
------------------------	--

DECLARATION, POWER OF ATTORNEY AND PETITION

•	
I (We), the undersigned inventor(s), hereby declare that:	
My residence, post office address and citizenship are as stated below next to	n my name
(We) believe that I am (we are) the original, first, and joint (sole) inve	ntos(s) of the
subject matter which is claimed and for which a patent is sought on the inve	mor(s) or the
METHOD FOR THREE-DIMENSIONAL CARTILAGE TISSUE	ntion entitied
ENGINEERING USING BONE MARROW CELLS IN SIMULATED	
MICROGRAVITY ENVIRONMENT	
he specification of which	
is attached hereto.	
□ was filed on	ac
Application Serial No.	
and amended on	
was filed as PCT international application	· ·
Number <u>PCT/JP2004/018339</u>	
on December 2, 2004	
and was amended under PCT Article 19	 ,
on(if applicable)	
(II applicable)	

I (We) hereby state that I (We) have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above; that I (We) do not know and do not believe that this invention was ever known or used before my invention or discovery thereof, or patented or described in any printed publication in any country before my invention or discovery thereof, or more than one year prior to this application, or in public use or on sale in the United States for more than one year prior to this application; that this invention or discovery has not been patented or made the subject of an inventor's certificate in any country foreign to the United States on an application filed by me or my legal representatives or assigns more than twelve months before this application.

I (We) acknowledge the duty to disclose information known to be material to the patentability of this application as defined in Section 1.56 of Title 37 Code of Federal Regulations.

I (We) hereby claim foreign priority benefits under Section 119(a)-(d) of Title 35 United States Code, of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Application No. 2003-413758 2004-096686	Country Japan Japan	Filing date December 11, 2003 March 29, 2004	Priority claimed Yes Yes Yes Yes Yes Yes Yes Yes	No No
I hereby claim the b	enefit under Secti	on 119(e) of Title 35	United State	s Code, of any
United States applica	ation(s) listed belo	w .		
(Application Number	r)	(Filing Date)		
(Application Number	r)	(Filing Date)		
United States applicated claims of this application manner provided by (We) acknowledge the of Title 37 Code of 1997.	ntion(s) listed belo ation is not disclo the first paragraph ne duty to disclose Federal Regulation	Section 120 of Title 33 w and, insofar as the sosed in the prior Unit of Section 112 of Timaterial information as, which occurred betternational filing dates	subject matter ted States app tle 35 United as defined in Setween the fili	of each of the olication in the States Code, I Section 1.56(a) ng date of the
		Status (pending,		
	•		pate	ented,
Application Serial No	o. Filis	ng Date	· aba	ndoned)

And I (We) hereby appoint: SUGHRUE MION, PLLC, CUSTOMER NUMBER 23373

I(We) hereby request that all correspondence regarding this application be sent to the firm of SUGHRUE MION, PLLC whose Post office address is: 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213 U.S.A.

I (We) declare further that all statements made herein of my (our) knowledge are true and that all statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Naoko KIDA	Residence: Ibaraki, Japan
NAME OF FIRST INVENTOR	
Naoleo Kida Signature of Inventor	Citizen of: Japan Post Office Address:
_	Ibaraki 305-0003 Japan
May 26, 2006	
Date	
Toshimasa UEMURA NAME OF SECOND INVENTOR	Residence: <u>Ibaraki, Japan</u>
$(I l \cdot I)$	Citizen of: Japan
Toshimasa Venura	Post Office Address:
Signature of Inventor	c/o National Institute of Advanced
	Industrial Science and Technology,
May 26, 2006	Tsukuba Central 6, 1-1, Higashi 1-chome,
Date	Tsukuba-shi, Ibaraki 305-8566 Japan

Junzo TANAKA	Residence: Ibaraki, Japan
NAME OF THIRD INVENTOR	
Jungo Famaton	Citizen of: Japan Post Office Address:
Signature of Inventor	c/o National Institute for Materials
	Science, 2-1, Sengen 1-chome,
May 26, 2006	Tsukuba-shi, Ibaraki 305-0047 Japan
Date	
Yoshimi OYABU	Residence: <u>Ibaraki</u> , <u>Japan</u>
NAME OF FOURTH INVENTOR	
Yoshim. Ohyabu	Citizen of: Japan Post Office Address:
Signature of Inventor	111-1-101, Hitachinohigashi, Ushiku-shi,
	Ibaraki 300-1207 Japan
May 26, 2006	
Date	